

**YON DON®**

Emphasis on Excellence

# **YD-F-285TR/285TRSC**

## Transport Infant Incubator User's Manual



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## **Introduction**

The YD-F-285TR/285TRSC transport infant incubator is the ideal life support equipment for infants requiring closely monitored and controlled environment on the road. Coupled with microprocessor and a compact physical design, the YD-F-285TR/285TRSC allows medical crews to move the incubator in and out of the ambulance or emergency vehicle with great ease and convenience. Each unit shipped is endorsed by the ISO9001 certified production line at YON DON's factory and customers can rest assured of the highest standard on the YD-F-285TR/285TRSC incubators.

## **Product Contents**

### ***Standard Accessories :***

1. Upper Unit
2. Transport Stand
3. Mattress
4. Micro-organism Filters (4 pcs)
5. Operation/Service Manual
7. Bed Belt
6. Power Pack
  - a) Maintenance-Free Battery
  - b) Voltmeter
  - c) Charger
  - d) Inverter
  - e) Connect Wire
  - f) AC Cord (3M)

### ***Optional Accessories :***

- a) I.V. Pole & Oxygen Multiway adaptor
- b) Oxygen Delivery System & Accessories :
  - 1) Oxygen regulator
  - 2) Air-activated suction
  - 3) Oxygen auto-resuscitator
  - 4) Oxygen flowmeter
  - 5) Oxygen cylinder
  - 6) Test bag
  - 7) Mask
  - 8) Connecting tube for cylinder & central oxygen system (3M)
- c) Connect Wire for Ambulance
- d) Illumination Lamp

## Features and Specifications

### ***Control System***

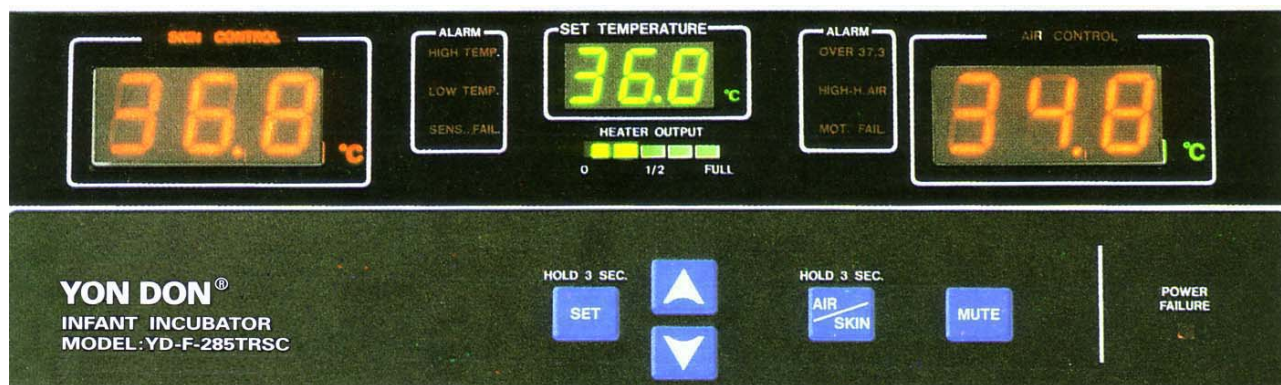
1. Digital microprocessor based control system
2. 3-Level over-heating protection mechanism
3. Skin sensor failure detection (only available on 285TRSC)
4. Power failure detection
5. Reminder audio alerts every 15 minutes if actual air/skin temperature does not reach within 1 degree range of the set temperature
6. Advanced programmable heating parameters for different ambient conditions
7. Touch keys for easy control settings
8. Water-proof control panel film to protect against spills or splashes
9. Large LED displays for easy readings on incubator status

### ***Closed Environment Compartment***

1. Durable and transparent acrylic provides great visibility to infant
2. Convenient access ports reduce air temperature fluctuations
3. Double-wall minimizes temperature fluctuations (optional feature)
4. Soft mattress provides comfort to the infant
5. Advanced air circulation system to provides best exchange and distribution of heat and air/oxygen
6. Spacious compartment provides room for oxygen hood (hood is optional)
7. Convenience ports available to allow secure pathways for skin probes (only available on 285TRSC), oxygen tubes, and etc.
8. Front door allows transporting infant in/out of the incubator with great ease
9. Tilt-enabled compartment provides maximum access to interior of the compartment

### ***Mobile Stand***

1. Durable swivel casters with lock provide great maneuverability
2. Strong stainless based stand with adjustable heights
3. Round hand rails provides great ease of handling when mobilizing
4. Oxygen cylinder holder available



### Indicators

1. SKIN TEMP. LED (only available on 285TRSC)  
Displays infant skin temperature when skin sensor is properly attached to the infant and SKIN TEMPERATURE control mode is in operation. Display range is from 20.0°C to 44.0°C.
2. AIR TEMP. LED  
Displays incubator air temperature. Display range is from 20.0°C to 44.0°C.
3. SKIN CONTROL LED (only available on 285TRSC)  
Indicates current operating mode is SKIN CONTROL. Incubator will adjust temperature and heat output according to the infant's skin temperature.
4. AIR CONTROL LED  
Indicates current operating mode is AIR CONTROL. Incubator will adjust temperature and heat output according to internal air temperature.
5. HIGHT TEMP. LED  
Indicates the current temperature is higher than selected temperature.
6. LOW TEMP. LED  
Indicates the current temperature is lower than selected temperature.
7. SENS FAIL. LED (only available on 285TRSC)  
Indicates a failure in detecting a functional skin sensor.
8. SET TEMPERATURE LED  
Indicates the current temperature setting for the incubator.
9. OVER 37.3 LED  
Indicates the incubator is detecting temperature higher than 37.3 °C and heat output is reduced to zero output.
10. MOTO FAIL. LED  
Indicates the inside air-circulation-control motor breaks down and the heater will stop functioning.

11. HIGH-H TEMP LED

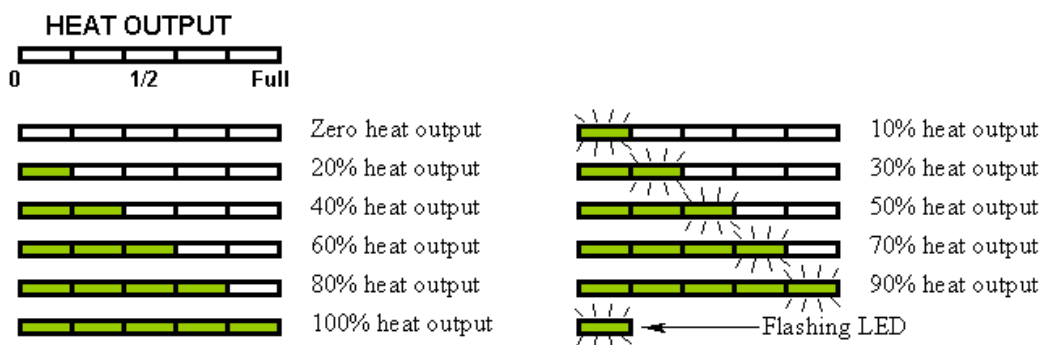
Indicates the incubator is detecting high temperature and the highest level of fail-safe mechanism is activated to cut off power supply to the heater. This prevents risk of over heating the internal air in case of a malfunctioning system.

12. POWER FAILURE LED

Indicates the failure of power and the heater will stop functioning.

13. HEATER OUTPUT LED

Indicate the current amount of heat transferred into the incubator via heated air. See figure for illustration.



## Controls

1. Power Switch

- Turns on/off power

2. Upper Arrow Button

- Increment digits when setting the control temperature
- Increment digits for internal control parameter adjustments

3. Lower Arrow Button

- Decrement digits when setting the control temperature
- Decrement digits for internal control parameter adjustments

4. Set Button

- Saves current setting changes when pressed
- Note: If Set button is not pressed, changes made are saved.

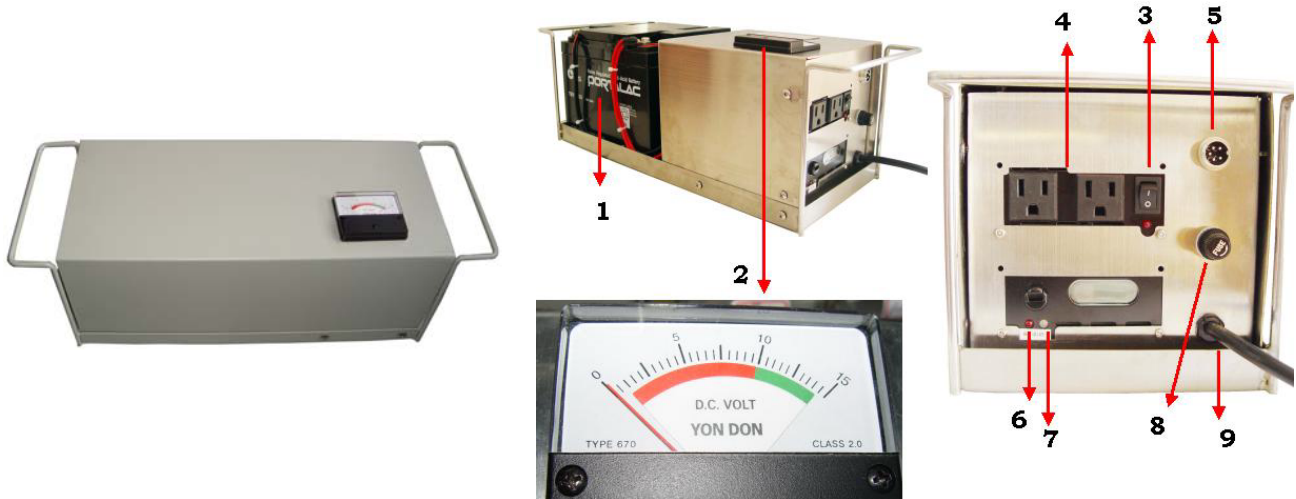
5. Mute Button

- Silences current audio alert

6. Air/Skin Button (only available on 285TRSC)

- Switches operating mode between Air or Skin control

## Power System



### 1. High-Capacity Rechargeable Battery

- Provides at least 2.5 hours of power supply to transport incubator when fully charged
- Battery life can vary depends usage
- Output 12V, 57AH with input (charging) 110/220V (see tag on cable)
- Battery is maintenance-free
- The POWER PACK also serves as an UPS (Uninterruptible Power Supply) when it is plugged to the socket outlet and is connected to the incubator

### 2. Voltmeter

- Displays remaining battery power level

### 3. Battery Power Switch & LED

- Turn on/off battery power
- Indicates the battery power switch is turned on

### 4. Battery Power Outlet

- Plugs incubator power cable into battery power outlet to supply power to incubator from battery
- Alternatively incubator power cable can plug into wall outlet power source

### 5. Connect Cable socket

- Connects power pack to ambulance

### 6. Charging LED

- Indicates Charging battery when unit is plugged in to a wall outlet power source

### 7. Battery Check LED

- Indicates Charging battery level.
- The battery check LED color changes from orange to green, charging is completely.



**8. Fuse**

- 3A 250V

**9. Charging Unit Power Cable**

- Charger power cable can plug into wall outlet power source to charge battery and supply power to incubator simultaneously
- See Charging Unit details for instructions

**WARNING:**



When the voltage from electrical outlet is unstable or below specified voltage, the charger may not function correctly. Particularly if the power source does not deliver the specified voltage, the charger may not be able to supply electricity to incubator while charging the battery. When unstable power is in use, incubator control system may frequently activate audio alarm indicating power failure or temperature alarm. Operator should plug both incubator and charging unit to separate electrical outlets at the same time so that battery can still be charged and incubator can also function despite lower voltage from wall outlet. Incubator has higher tolerance to unstable wall outlet power sources.

## Operational Instructions


### Operating Mode

After the power supply has been connected, turn on the Power Switch.

#### 1. Air Control




- This is the default mode as soon as power is turned on. Press  button and hold for 3 seconds to switch between Air or Skin control mode (Only available on 285TRSC).
- Press  button to silence the audio alarm. Upon powering up the incubator, low temperature alarm usually sounds due to low initial air temperature.
- Refer to Temperature Adjustment for changing control temperature.
- If the skin probe is attached, the SKIN CONTROL will still display skin temperature even if AIR CONTROL mode is the current operating mode (Only available on 285TRSC).

#### 2. Skin Control (only available on 285TRSC)

- A functional skin probe must be attached to the socket properly before the skin control mode can be selected. If a working skin probe cannot be detected, the incubator's risk prevention mechanism will switch to air control mode.
- Press  button and hold for 3 seconds to switch between Air or Skin control mode.
- Refer to Temperature Adjustment for changing control temperature.

### Temperature Adjustment

The following steps illustrate the procedures to change control temperature

1. Press  button and hold for 3 seconds to enter setting mode.
2. Press upward arrow  to increment or downward arrow  to decrement the control temperature.
3. Observe the current setting on the SET TEMPERATURE display.
4. When the desired temperature is selected, press set button again to save the setting and exit setting mode.

## Temperature Alarm Setting

The incubator's factory default settings are 1.0. See the following chart for illustration. Assume the control temperature is set at 35.5 °C.

Actual Temperature Reading	Temperature Alarm Status
> 36.5 °C	High Temperature Alarm sounds
35.5 ~ 36.5 °C	Silent (Temperature within control range)
= 35.5 °C	
34.5~35.5 °C	
< 34.5 °C	Low Temperature Alarm sounds

1. To change High Temperature Alarm range, hold UPWARD ARROW button and SET button for 3 seconds. Then release the two buttons to enter the setting mode. Adjust the range from 0.1 ~ 3.0 and press SET button when done. Note that 0.0 range means the High Temperature Alarm is disabled.
2. Low Temperature Alarm range adjustment can be performed in similar way. Hold DOWN ARROW button and SET button for 3 seconds. Then release the two buttons to enter the setting mode. Adjust the range from 0.1 ~ 3.0 and press SET button when done. Note that 0.0 range means the Low Temperature Alarm is disabled.
3. Skin Control (YD-F-285TRSC). Input Skin Probe to Phone Jack. Press AIR/SKIN button for 3 seconds, entering SKIN CONTROL mode. Then following procedure identical point 1 and 2. Setting range to be 0~1 (Alarm commonly set at 0.5°C)

## Using Transparent Compartment

### 1. Transport Compartment



### 2. Front Door



### 3. Convenient Ports



### 4. Access Ports



### 5. Irish Port



### ***Attaching Skin Probe (only available on 285TRSC)***

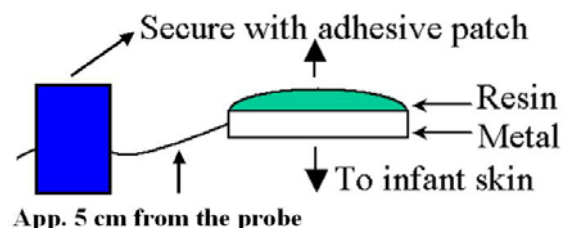
1. Insert the skin probe into the socket. See the illustration below.



2. Attach the skin probe to the infant, the middle line on the ventral surface which between the umbilicus and ensiform, with the non-irritative adhesive patch. Make sure that the flat metal side of the sensor head is in complete contact with the infant, and secure the probe cord with tape at a distance app. 5 cm from the probe. See illustrations below.



Secure the skin probe with a medical grade adhesive patch



### ***Using Transport Stand***

#### **1. Moving Transport Stand**

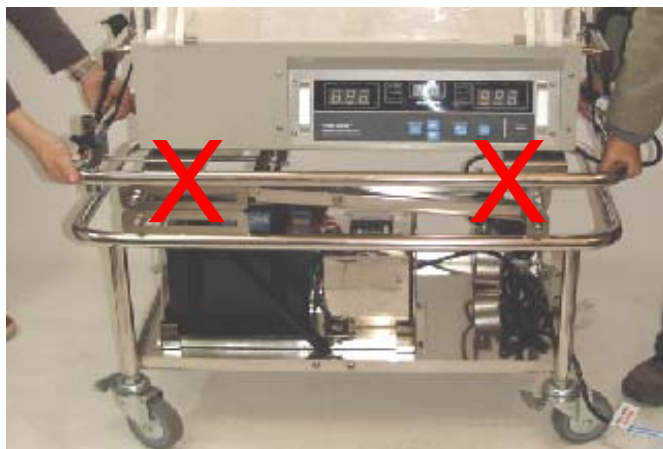
- Make sure the two side handles of the incubator are securely fastened to the stand with straps. See illustration below.



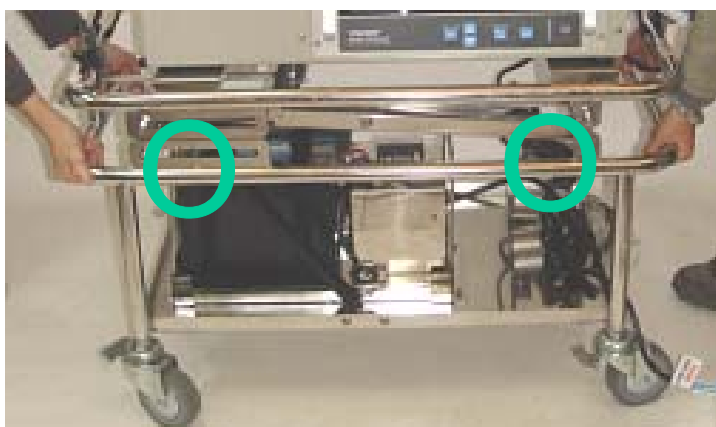
- Hold the upper handrail of the stand to move. Make sure all casters are unlocked before mobilizing.

## 2. Lifting Transport Stand

When lifting the whole transport system (incubator with stand), be sure to hold the lower handrail of the transport stand. See illustration below.

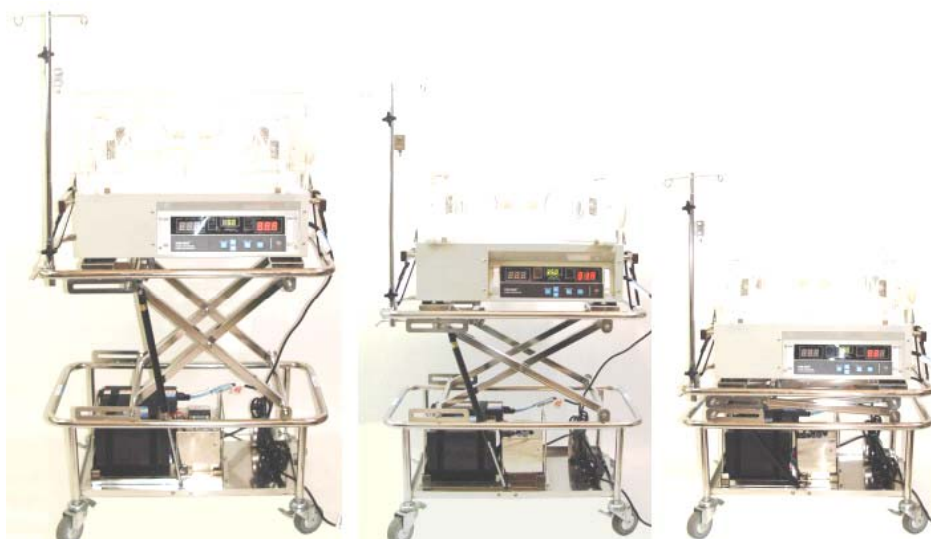


Do not lift with  
upper handrail



Lift with lower  
handrail

## 3. Adjust Transport Stand Height



- Full Height -> Mid Height -> Low Height



#### 4. Using Oxygen Cylinder Holder See the illustration below.



Secure the bottom first.



Lock cylinder top.

### ***Power Supply***

#### 1. Standard Indoor Operation

Please connect the power cables as illustrated in the picture below. Note that this is the standard way of operating the incubator whenever an electrical outlet is available. However, if a power outlet is not available, the incubator will run on the battery until the battery is drained. Therefore, it is recommended that the charger's power cable is always connected to an electrical outlet to keep the battery charged at all times so that the transport incubator is always ready for emergency situations.



#### 2. Mobile

Simply disconnect the charger's power cable to the electrical outlet and check the battery meter to see if there is enough power in the battery.



### 3. By Pass

In cases when a stable voltage is not available or charger malfunctions, operator may choose by-pass mode. Charger will charge the battery as long as it is connected to an electrical outlet even if the voltage is a little off the specified volt.



## Power Pack Safety

### 1. Operating Procedures

- When not in use, turn off incubator's power switch to prevent over discharge of battery power.
- Use the right charging/discharging settings to ensure the battery's quality and capacity.
- The battery is maintenance-free; it strictly **forbids** adding water into the battery and using any metal such as steel wire brush to connect or clean the terminals.
- The power pack is heavy and must be firmly secured to the transport stand in order to prevent injuries or damages caused by falling battery. Any impact to the battery can affect the power pack's overall performance.
- If the battery is damaged physically or by short-circuit, acid may leak from the container. Damaged battery must be properly disposed to avoid health risks from the leakage of poisonous acid.
- Placing battery upside down could cause sulfuric acid to leak out.
- The battery loses efficiency gradually due to slow and irreversible chemical reactions and self-discharging over time. If the battery is stored and not used for more than a year, its capacity will reduce significantly and may not be usable for transport incubator. Regular charging and discharging may prolong the life of the battery.
- Replacement of the battery is required when the battery capacity is below 50%. We recommend that the battery to be replaced once every year to ensure that adequate battery capacity for the purpose of the transport incubator is always available.
- If you encounter unusual behavior from the transport incubator or the power pack system, immediately terminate the operation of the equipment to ensure the safety of all personnel and equipment.

- Avoid exposure of battery to direct sunlight.
- Keep the power pack dry and away from water or seawater.
- Do not put anything on the top of the power pack. Keep metallic objects out from battery terminals to prevent short-circuiting, which may lead to battery acid leakage, battery heating up, or fire.

**2. Dangers**

- Do not store the battery inside any equipment. The battery must be placed in a place with good ventilation. Improper storage of battery may increase the risks of battery explosion and severe injuries to nearby people.
- Battery must be kept away from any source of heat or flame to prevent battery ignition or even explosion. All power cables connected to the battery must be well insulated in order to prevent short-circuiting. If short-circuiting occurs, smoke or even a fire may result from the battery.

**3. Warnings**

- Do not burn the battery or throw it into a fire. Doing so may cause the battery to explode and toxic gas may be released.
- There is sulfuric acid inside of the battery. Please use water for cleaning if skin or clothes have been in contact with the acid. If acid gets into your eyes, use ample clean fresh water to flush your eyes and seek medical attention immediately.



## Additional Operational Notes

### *Pre-Operation Procedures*

- (1) Before inserting into the electrical outlet, make sure the power switch is in **off** position.
- (2) Before heading out for emergency, make sure a) the internal temperature has risen up to the pre-set temperature b) The power pack is recharged fully. Refer to the step “Power Supply – standard indoor operation” (Page 13).
- (3) Power cord of Incubator also can be plugged into other electrical outlets without through the power pack. Caution: a) Only correctly electrical outlets should be used. b) Before putting infant into the incubator, turn on the machine and make sure the temperature inside the incubator has risen up to the pre-set temperature.
- (4) Please make sure a three-hole electrical outlet is used. If it is not a three-hole outlet, the plug of the machine will no be able to fit in. If recklessly change the three-hole plug into a two-hole one, it may lead to the damage of the machine of electrical leakage.
- (5) There are four tags on the power cord indicating correct connection. Please do not damage the tags and ensure correct connection. Caution: Please match the voltage of the electrical outlet with the voltage indicated on the tag. If the voltage is mismatched, the machine will be damaged
- (6) Caution when placing the incubator:
  - [a] Do not place it under the direct sunlight for a long time.
  - [b] Do not place it near the heater or the outlet of the air conditioner.
  - [c] A place with the temperature around 25°C to 28°C, degree of humidity 65% and good circulation of air is ideal for the machine.
  - [d] The normal operating temperature of the incubator is 32°C to 34°C with the degree of humidity 55% to 65% RH.

## Maintenance

### A. Attention-Before cleaning the machine

- (1) Before washing the machine, make sure the circuit is not connected.
- (2) To wash the machine, simply use water and wipe it with a cotton cloth. To sterilize the machine, a germicide lamp can be used (Please refer to our company's product : model YD-P-311). If using the sterile solution for cleaning, please use 2/1000 portion of the BENZALDONIUM CHLORIDE SOLUTION or BENZETHONIUM CHLORIDE SOLUTION to dilute the sterile solution. Do not clean the machine with undiluted sterile solution or sterile solution that is not fully diluted (ie. Solution that is not well mixed). After using the sterile solution, use water and a cotton cloth to clean out the residual sterile solution.
- (3) Do not use alcohol based sterile solution for cleaning.
- (4) If a germicide lamp is used for sterilization, place the lamp inside the incubator and use a dark color cloth to cover the incubator during sterilization. The ideal sterile period when using the germicide lamp is 5 minutes. Do not look into the germicide lamp when it is operated.
- (5) After the incubator is used, a foul smell may develop which can be decreased by putting active-carbon into the incubator. (About 100g, and warped with cloth) can be put inside the incubator and used as deodorant.
- (6) The micro-organism filter can not be cleaned by washing. Please replace the filter every three months as a rule, while admitting that the useful life of the filter depends on the air contamination level and usage frequency. See the illustration below.



Remove the filter cap from the back of the incubator and replace the filter with a new one.

### B. Cleaning the exterior

- (1) Please use a dry or damp cotton cloth to wipe the acrylic hood, control unit and cabinet. Caution: When cleaning the exterior, do not use a cloth that is too wet in order to prevent any leakage of water into the control unit (Especially when wiping the control panel) that will lead to the damage of the machine.

### C. Cleaning interior units

- (1) Cleaning the mattress : take out the sponge pad and wipe it with a damp cotton cloth.
- (2) Cleaning the acrylic bed : wipe it with a damp cotton cloth.

### D. Replacement of micro-filter

- (1) Remove the micro-filter carefully to prevent dust on it from scattering. Wipe thoroughly clean the surface and mounting portions of the filter cover with soft cloth. And then fix a new one in position and screw the filter cover back on.

**E. Skin Temperature probe**

- (1) Clean it lightly with soft dry cloth.
- (2) To disinfect the sensor element of the skin temperature probe, clean it with soft cloth soaked with detergent disinfectant solution.
- (3) Be sure to store the skin temperature probe in its case when not in use.
- (4) Caution: Alcohol must not be used to clean the skin temperature probe to avoid the hardening of the material.

***Caution:***

- (1) The incubator must be clean and has its maintenance regularly.
- (2) For proper operation of the machine, please do not put anything which could block the air circulation near the air vents.
- (3) For changing the consumable units (or damaged units), please use the standard units from our company to ensure the proper operation of the machine. Our company is not responsible for any damage that is caused by using improper units.

## ***Trouble-shooting***

Please check the following point before requesting repair service when find troubled.

### **A. Power Unit:**

- a) Power switch dose not light:
  - 1. Power switch in “OFF” position?
  - 2. Power disconnected from the electrical plug?
  - 3. The incubator circuit breaker?
  - 4. The fuse circuit breaker?
  - 5. The battery is out of power? Or the hospital circuit breaker not interrupting circuit?
- b) Power failure alarm persists when charging unit is connected to an electrical outlet.
  - 1. Charger unit requires stricter voltage and it is possible that the electrical outlet is not supplying required voltage. For example, it the charger unit requires 230Volts and the electrical outlet only supplies 220Volts, then the charger may not be able to function correctly. When this happens, make sure that your electrical outlet supplies the specified power, or alternatively you can choose to connect both the incubator’s power cable and the charger unit’s power cable to electrical outlets at the same time. This will ensure battery is being charged and incubator functions within parameter.

### **B. Incubator Temperature:**

- a) The temperature dose not rise:
  - 1. The temperature setting proper?
  - 2. The power voltage is low?
  - 3. The air-circulating fan stopped?
- b) The temperature rises too high:
  - 1. The temperature setting proper?
  - 2. The skin temperature probe attached to infant?
  - 3. The diaper gauze clogged the air vent?
- c) Digital skin temperature indicator dose not function Properly:
  - 1. The temperature probe inserted firmly into skin temperature connection?
  - 2. The skin probe have attached to infant abdomen securely with tape?
  - 3. The skin probe into lukewarm water (30°C -40°C) for check the indicator displays skin temperature accurately, and find what shall be changed.
- d) Inaccuracy of the temperature **control** may be caused by:
  - 1. Incorrect placement of the acrylic mattress board. Please make sure it is placed flat.
  - 2. Incomplete closure of the acrylic hood. Check to see if anything is interfering the closure.
  - 3. Fail to close the acrylic front door or the hand ports. Please ensure closure of both.
  - 4. The blockage of the air vents. Please remove the blockage.

5. Pre-set temperature is too high or too low. Please adjust the pre-set temperature.
  6. Problems in the control unit. Please contact our company or the dealer for check-up or repair.
- e) Inaccuracy of temperature **indication** may be caused by:
- 1) Under the operation of the internal temperature control model :
    1. Blockage of the air vents. Please remove the blockage.
    2. The surface of the sensor is not clean. Please wipe the sensor.
    3. The damage of the sensor or the control unit. Please contact our company or the dealer for check-up or repair.
  - 2) Under the operation of the skin temperature control:
    1. The skin probe is not well attached or attached properly to the control unit. Please follow the instructions to re-attach the skin probe on the infants skin.
    2. The surface of the skin probe is not clean. Please wipe the skin probe.
    3. The damage of the skin probe or the control unit. Please contact our company or the dealer for check-up or repair.
- C. Oxygen concentration dose not rise:
1. Oxygen flow rate in flow meter?
  2. Oxygen has being accurately supplied?
  3. The power unit positioned correctly?
  4. The filter cover has fixed?
  5. The micro-filter could filter element?
- D. Others:
- a) Fail to cancel the warning signal may be caused by :
    1. The power supply is not connected. Please follow the instructions to connect the power supply.
    2. Fail to have electricity supply from the outlet or the voltage is incorrect. Please check the voltage of the outlet.
    3. The fuse is not inserted or the fuse is failed. Please follow the instructions to insert or change the fuse.
    4. Problems in the mute control key. Press the mute control key again.
    5. Internal temperature is too high (the warning signal will light on). Please refer to **Trouble-Shooting : B. d). Inaccuracy in temperature control.**
    6. The damage of the fan (air-circulation-control motor) or the control unit. Please contact our company or the dealer for check-up or repair. **Stop to use.**
  - b) The warning signal fail to sound may be caused by:
    1. Applying the mute control key. Have to wait till another emergency condition for the warning signal to sound again (except under special condition).
    2. The damage of the mute control key or the control unit. Please contact our company or the dealer for check-up or repair.

## **Contact Us**

YON DON ENTERPRISE CO., LTD.

**Website: <http://www.yondon.com>**

2F, No. 34, Lane 80, Section 3, Nan-Kang Road, Nan-Kang,  
Taipei 11570, Taiwan. R.O.C.

Tel: 886-2-2785-9800

Fax: 886-2-2786-5539

[support@yondon.com](mailto:support@yondon.com)

[info@yondon.com](mailto:info@yondon.com)

Warranty Service. If the system has been working until recently, please contact your agent (the company that sold the system to you) first. We will be more than glad to help should you require further assistance after contacting your local agent.

## **Appendix**

1. Assembly diagrams, starting from next page for a total of 4 pages.
  - First page : The exterior of Transport Incubator.  
Note: The control panel box (Item No. TR-7/Parts No. TR2850) is old model. The correct one; please refer to the second page. The I.V pole (Item No. TR-9/Parts No. TR7761) is optional accessory.
  - Second page : Control Panel Box.
  - Third page : I.C. Hood.  
Note: The Item Nos. TR-1-28, 34 & TR-14-34~36 (Parts No. 2320, 2321 & 2315, 2316 & 2313) are optional, and available if Double Wall of IC Hood is purchased.
  - Fourth page : Transport Stand.
2. Electrical Compartments, starting after assembly diagrams.

**Thank You**

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